

Converting Colors

XYZ(12.8169, 17.8871, 18.2612)

Have a look what the booklet for
XYZ(12.8169, 17.8871, 18.2612)
contains.

XYZ(12.8808, 17.9495, 18.4085)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.8808, 17.9495,
18.4085)**

Conversions

Conversions Part 1

Format	Color
Hex	3F8171
RGB	63, 129, 113
RGB Percent	25%, 51%, 44%
CMY	0.7529, 0.4941, 0.5569
CMYK	0.51, 0.00, 0.12, 0.49
HSL	165°, 34%, 38%
HSV	165°, 51%, 51%
XYZ	12.8808, 17.9495, 18.4085
YIQ	107.4420, -34.2000, -18.9680

Conversions

Conversions Part 2

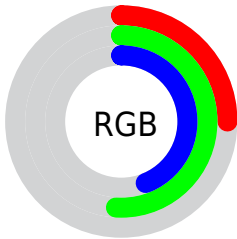
Format	Color
R_{YB}	63, 101, 129
Decimal	4161905
CIE _{Lab}	49.43, -25.22, 2.23
CIE _{LCh}	49, 25.319, 174.950
Y _{xy}	17.9495, 0.2616, 0.3645
Android (android.graphics.Color)	4282351985 (0xFF3F8171)
Y _{UV}	107.4420, 2.7401, -38.9756
Hunter-Lab	42.3669, -19.8726, 3.8951

Details


The XYZ color **12.8808, 17.9495, 18.4085** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **12.2427, 8.7872, 8.4487**, and the grayscale version is **14.0978, 14.8320, 16.1520**.

A 20% lighter version of the original color is **30.7219, 39.8855, 41.6768**, and **3.7501, 5.9736, 5.9564** is the 20% darker color. If you saturate the color by 10%, you get **11.9786, 17.5048, 17.4632**, and if you desaturate by 10%, it is **13.9832, 18.4976, 19.3956**.

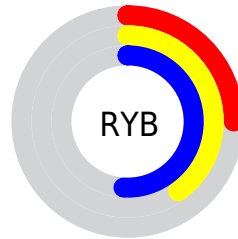
Distribution



 Red (25%)

 Green (51%)

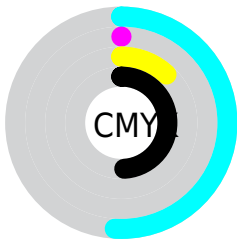
 Blue (44%)




 Red (25%)

 Yellow (40%)

 Blue (51%)

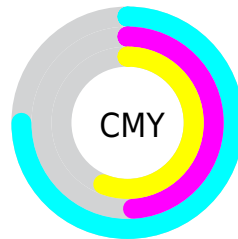


 Cyan (51%)


 Magenta (0%)

 Yellow (12%)

 Black (49%)



 Cyan (75%)

 Magenta (49%)

 Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8808, 17.9495, 18.4085 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 12.8808, 17.9495, 18.4085 by changing the saturation by 10% instead.

12.8808, 17.9495,
18.4085

12.8808, 17.9495,
18.4085

203.8054,
240.5862, 255.4766

7.4229, 10.9137,
11.0712

30.6926, 39.9513,
41.5555

3.7767, 6.0089,
6.0000

43.7773, 55.6860,
58.2022

1.5766, 2.8505,
2.7763

60.1349, 75.0893,
78.7892

0.3771, 1.0542,
0.9816

80.1309, 98.5454,
103.7350

0.0000, 0.0000,
0.0000

104.1306,
126.4387, 133.4581

132.4993,

159.1537, 168.3770

165.6025,
197.0748, 208.9103

■ 12.8808, 17.9495,
18.4085

■ 12.8808, 17.9495,
18.4085

■ 11.9786, 17.5048,
17.4632

■ 13.9832, 18.4976,
19.3956

■ 11.2613, 17.1543,
16.5575

■ 15.2967, 19.1533,
20.4243

■ 10.7138, 16.8907,
15.6909

■ 16.8331, 19.9232,
21.4956

■ 10.3180, 16.7046,
14.8620

■ 18.6032, 20.8129,
22.6105

■ 10.0423, 16.5778,
14.1582

■ 20.6166, 21.8273,
23.7697

■ 22.8829, 22.9712,
24.9739

■ 25.4106, 24.2493,
26.2239

■ 28.2083, 25.6658,
27.5202

■ 31.2840, 27.2248,
28.8636

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



13.5688, 17.9495, 12.9193



12.8808, 17.9495, 18.4085



13.2246, 17.9495, 25.6367

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



12.8808, 17.9495, 18.4085



19.0729, 17.9495, 34.0666



19.8374, 17.9495, 10.6297

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



12.8808, 17.9495, 18.4085



12.2427, 8.7872, 8.4487

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



21.5745, 17.9495, 14.5022



12.8808, 17.9495, 18.4085



21.1050, 17.9495, 28.1164

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



12.8808, 17.9495, 18.4085



16.6592, 17.9495, 35.7999



22.0586, 17.9495, 20.7252



17.4681, 17.9495, 9.1484

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



12.8808, 17.9495, 18.4085



14.0110, 17.9495, 30.3922



22.0586, 17.9495, 20.7252



20.5231, 17.9495, 11.6437

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



12.8813, 17.9502, 18.4089



31.9329, 36.5757, 39.6429



12.0142, 17.7439, 7.4947



7.1021, 8.2156, 8.8937



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.8813, 17.9502, 18.4089



21.2695, 31.2575, 31.0620



11.8624, 14.3414, 22.9126



4.4033, 4.8696, 5.2947



9.7926, 16.1636, 13.8127



0.0000, 0.0000, 0.0000

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



12.2427, 8.7872, 8.4487



20.0074, 12.9591, 11.2377



12.7832, 10.6909, 6.0928



4.3672, 4.3600, 4.7383



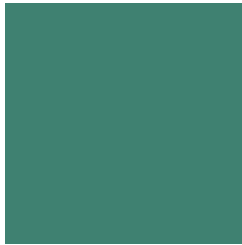
9.0732, 4.6490, 1.7093



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.8808, 17.9495, 18.4085 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 12.8808, 17.9495, 18.4085 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.8808, 17.9495, 18.4085

Background



This preview shows how black text looks on a background with the XYZ color 12.8808, 17.9495, 18.4085.

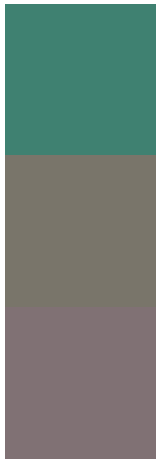


This preview shows how white text looks on a background with the XYZ color 12.8808, 17.9495,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

12.8808, 17.9495, 18.4085

Protanopia

16.8480, 17.8281, 16.1889

Deuteranopia

17.9596, 17.6604, 18.9852



Tritanopia

14.4306, 18.0014, 26.0066

Trichromacy



Original Color

12.8808, 17.9495, 18.4085

Protanomaly

14.8532, 17.4882, 17.0607

Deuteranomaly

15.4003, 17.3745, 18.7616

Tritanomaly

13.8004, 17.9305, 23.1557

Monochromacy



Original Color

12.8808, 17.9495, 18.4085

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.2054, 15.5897, 16.7811

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8808, 17.9495, 18.4085 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(63, 129, 113)` looks like.

```
.text, #text, p{  
    color:rgb(63, 129, 113)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(63, 129, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 129, 113) }
```

Border

The CSS property to change the border of an element to XYZ 12.8808, 17.9495, 18.4085 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(63, 129, 113) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(63, 129, 113) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(63, 129, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 129, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 129, 113);  
box-shadow:4px 4px 4px 4px rgb(63, 129,  
113) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8808, 17.9495, 18.4085 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 129, 113) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(63, 129,  
113) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor